

PATENT

Docket No.: JCLA21671

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : KAZUYA HOSOKAWA et al.  
Application No. : 10/599,050  
Filed : September 18, 2006  
For : THROMBIN DERIVATIVES AND MEDICINAL COMPOSITION  
: CONTAINING THE SAME

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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

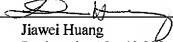
Enclosed is a PTO Form 1449 listing ( 14 ) references that are also attached. Applicants submit the reference(s) in compliance with their duty of disclosure pursuant to 37 CFR §1.56 and 1.97. The Examiner is requested to make the citation(s) of official record.

This IDS is being submitted before first Office Action. Thus, no fee is due. However, if a first Office Action has been sent, the Commissioner is authorized to charge any necessary fee in connection with the submission of the IDS to Account No. 50-0710 (Order No. JCLA21671).

The submission of the references should not be interpreted as admitting them as prior art.

Respectfully submitted,  
J.C. Patents

Dated: 0-28-2007

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO.: JCLA21671	APPLICATION No.: 10/599,050
	APPLICANT: KAZUYA HOSOKAWA et al.	
	FILING DATE: September 18, 2006	GROUP:

FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	T
	WO 9513385	05/18/95	PCT			✓
	WO 02077031	10/03/02	PCT			✓
	WO 0103740	01/18/01	PCT			✓
	EP 1195163	04/10/02	European			✓
	WO 9214750	09/03/902	PCT			✓

NON PATENT LITERATURE DOCUMENTS			
EXAMINER INITIAL	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.	T
		ROSARIA ARCONI et al., "Thrombin mutants with altered enzymatic activity have an impaired mitogenic effect on mouse fibroblasts and are inefficient modulators of stellation of rat cortical astrocytes" 1999 Elsevier Science B.V., Biochimica et Biophysica Acta, Vol. 1451 (1999), pp. 173-186	✓
		ZHONG-RU GAN et al., "Importance of the Arg-Gly-Asp Triplet in Human Thrombin for Maintenance of Structure and Function" 1993 by Academic Press, Inc., Archives of Biochemistry and Biophysics, Vol. 301, No. 2, March, pp. 228-236	✓
		JOAN T. HARMON et al., "Activation of Platelets by $\alpha$ -Thrombin Is a Receptor-mediated Event" 1986 by The American society of Biological Chemists, Inc., The Journal of Biological Chemistry, Vol. 261, No. 34, December 5, pp. 15928-15933, 1986	✓
		KAZUYA HOSOKAWA et al., "Preparation of anhydrothrombin and characterization of its interaction with natural thrombin substrates" 2001 Biochemical Society, Biochem. J. (2001), Vol. 354, pp. 309-313	✓
		TOKYO KAGAKU DOJIN et al., "Stabilization of transition state by serine protease" Biochemistry, first volume of the textbook that has been translated into Japanese, 1996, pp. 331-340	✓

EXAMINER	DATE CONSIDERED
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EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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		ANGELENE M. CANTWELL et al., "Rational Design of a Potent Anticoagulant Thrombin" 2000 by The American Society for Biochemistry and Molecular Biology, Inc., The Journal of biological Chemistry, Vol. 275, No. 51, December 22, pp. 39827-39830, 2000	✓
		WENDY J. CARTER et al., "Crystal Structure of Anticoagulant Thrombin Varian E217K Provides Insights into Thrombin Allostery" 2004 by The American Society for Biochemistry and molecular Biology, Inc., The Jorنال of Biological Chemistry, Vol. 279, No. 25, June 18, pp. 26387-26394, 2004	✓
		AIMEE M. CRAGO et al., "Monocyte Chemoattractant Activity of Ser <sup>195</sup> →Ala Active Site Mutant Recombinant α-Thrombin" 1995 by Academic Press, Inc., Experimental Cell Research, Vol. 219, pp. 650-656, (1995)	✓
		ANDRAS GRUBER et al., "The Thrombin Mutant W215A/E217A Shows safe and Potent anticoagulant and Antithrombotic Effects in Vivo" 2002 by The American society for Biochemistry and Molecular Biology, Inc., The Journal of Biological Chemistry, Vol. 277, No. 31, August 2, pp. 27581-27584, 2002	✓

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